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## Credit-based flow control for ATM networks

Kung, N.T. Morris, R.

Harvard Univ., Cambridge, MA, USA ;

This paper appears in: **Network, IEEE**

Publication Date: March-April 1995

On page(s): 40 - 48

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ISSN: 0890-8044

Reference Cited: 14

CODEN: IENEET

Inspec Accession Number: 4931626

#### Abstract:

Simulation, analysis, and experiments on switching hardware have shown that variety of traffic patterns, credit control is fair, uses links efficiently, minimizes guarantees no cell loss due to congestion. The **credit-based** mechanism proposed by authors provides **flow control** tailored to ATM networks

#### Index Terms:

adaptive control asynchronous transfer mode protocols telecommunication congestive telecommunication network management ATM networks adaptive buffer allocation all loss congestion credit update protocol credit-based flow control simulation switch hardware traffic patterns

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 adaptive credit allocation and statistical multiplexing

H. T. Kung , Trevor Blackwell , Alan Chapman

**ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications** October 1994

Volume 24 Issue 4

This paper presents three new results concerning credit-based flow control for ATM networks: (1) a simple and robust credit update protocol (CUP) suited for relatively inexpensive hardware/software implementation; (2) automatic adaptation of credit buffer allocation for virtual circuits (VCs) sharing the same buffer pool; (3) use of credit-based flow control to improve the effectiveness of statistical multiplexing in minimizing switch memory. These results have been substantiated by analysis ...

- 2** Switcherland: a QoS communication architecture for workstation clusters 90%

Hans Eberle , Erwin Oertli

**ACM SIGARCH Computer Architecture News , Proceedings of the 25th annual international symposium on Computer architecture** April 1998

Volume 26 Issue 3

Computer systems have become powerful enough to process continuous data streams such as video or animated graphics. While processing power and communication bandwidth of today's systems typically are sufficient, quality of service (QoS) guarantees as required for handling such data types cannot be provided by these systems in adequate ways. We present Switcherland, a scalable communication architecture based on crossbar switches that provides QoS guarantees for workstation clusters in the form of ...

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